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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,364	07/18/2003	Adlai H. Smith	38203-6215	3164
7590 06/07/2004			EXAMINER	
David A. Hall		KIM, PE	KIM, PETER B	
Heller Ehrman White & McAuliffe LLP				
7th Floor			ART UNIT	PAPER NUMBER
4350 La Jolla Village Drive			2851	
San Diego, CA 92122-1246 DATE MAILED: 06/07/2004			1	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/623,364	SMITH ET AL.					
Office Action Summary	Examiner	Art Unit					
-	Peter B. Kim	2851	And				
The MAILING DATE of this communication app			ress				
Period for Reply		,					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.				
Status							
1) Responsive to communication(s) filed on 19 A	pril 2004.						
	action is non-final.						
3) Since this application is in condition for allowa	nce except for formal matters, pro	secution as to the n	nerits is				
closed in accordance with the practice under t	Ex parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-49</u> is/are pending in the application							
4a) Of the above claim(s) <u>18-49</u> is/are withdray							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-17</u> is/are rejected.	☑ Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)⊠ The drawing(s) filed on <u>15 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is obj	ected to. See 37 CFR	t 1.121(d).				
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form PTO	)-152.				
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Burea</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. s have been received in Application in the second	on No ed in this National S	tage				
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>12004</u>.</li> </ol>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		52)				

## **DETAILED ACTION**

## Election/Restrictions

Claims 18-49 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in Paper filed on Apr. 19, 2004.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14, 16 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim1, "an encoded face of an optical element" is unclear because an optical element seems to refer to element 206 and the encoded face is on an separate structure 208.

Regarding claim 16, the structural relationship of "a condensing lens" and "an illumination modifying optic" is unclear.

The remaining claims, not specifically mentioned, are rejected for incorporating the defects from the base claim by dependency.

In order to expedite prosecution, the following art rejection is based on the examiner's best understanding of the claims.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-8, and 10-17 are rejected under 35 U.S.C. 102(a) as being anticipated by Taniguchi (6,333,776).

Taniguchi discloses a method of in-situ measurement of optical aberration comprising producing an illumination at low partial coherence and chief rays filling an entrance pupil with plurality of light ray bundles onto a plurality of locations on a reticle (col. 3, line 43 – col. 4, line 29); exposing measurement fiducials of an encoded face of an optical element onto a sensing plane; measuring relative positions of the exposed measurement fiducials on the sensing plane (col. 8, line 51 – col. 9, line 19); and determining the optical aberration from the measured positions and known relative positions of the fiducials (col. 6, lines 29-44). Taniguchi discloses a condensing lens (4b) and aperture (3a).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Taniguchi in view of Barr et al. (Barr) (5,756,238).

Taniguchi discloses the claimed invention as discussed above; however, Taniguchi does not disclose fiducials of square toruses. Barr discloses fiducials of square toruses (Fig. 4-6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention

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to provide the square toruses of Barr to the invention of Taniguchi in order to efficiently determine the quality of the images through the projection optical system as taught by Barr in col. 1, line 59 – col. 2, line 9.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is 571 272 2120. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lefkowitz can be reached on 571 272 2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Peter B. Kim Primary Examiner
Art Unit 2851